



2012-2017 Victory Cross Roads Hard-Ball
Cross Country Magnum Service manual

2012
CROSS ROADS/HARD-BALL/

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**2012 – 2017 Cross Roads, Hard-Ball, Cross Country,
Magnum**
Service Manual
Chapter Summary

- CHAPTER 1: GENERAL**
- CHAPTER 2: MAINTENANCE**
- CHAPTER 3: FRAME / BODY / EXHAUST**
- CHAPTER 4: LUBRICATION / COOLING**
- CHAPTER 5: FUEL SYSTEM / FUEL INJECTION**
- CHAPTER 6: ENGINE REMOVAL / INSTALLATION**
- CHAPTER 7: CYLINDER HEAD / VALVES**
- CHAPTER 8: CYLINDER / PISTON**
- CHAPTER 9: CLUTCH, PRIMARY / SHIFT**
- CHAPTER 10: TRANSMISSION / CRANKSHAFT**
- CHAPTER 11: DRIVE LINE**
- CHAPTER 12: FRONT WHEEL / SUSPENSION**
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- CHAPTER 14: TIRES**
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- CHAPTER 16: CHARGING SYSTEM**
- CHAPTER 17: IGNITION SYSTEM / BATTERY**
- CHAPTER 18: ELECTRIC STARTER**
- CHAPTER 19: LIGHTING / INSTRUMENTATION**

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CHAPTER 1 GENERAL

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GENERAL INFORMATION

SERVICE RULES

In order to perform service work efficiently and prevent costly errors, technicians should read the text in this manual and familiarize themselves with the procedures before beginning. Notes, Cautions and Warnings have been included for clarification of text and safety concerns. Knowledge of mechanical theory, tool use and shop procedures are necessary to perform some procedures in this manual safely and correctly.

Use only genuine Victory service parts, including fasteners that require replacement if removed. Do NOT substitute fasteners or hardware.

Cleanliness of parts and tools as well as the work area is of primary importance. Dirt and foreign matter will cause damage to precision parts. Clean the motorcycle before beginning service. Clean all parts before installing.

If difficulty is encountered in removing or installing a component, look to see if a cause for the difficulty can be found. If it is necessary to tap the part into place, use a soft face hammer and tap lightly.

Always follow torque specifications as outlined throughout this manual. Incorrect torquing may lead to serious machine damage or in the case of steering, driveline, and chassis components, can result in loss of control during operation of the motorcycle, which may result in severe personal injury or death.

If a torquing sequence is indicated for nuts, bolts or screws of a certain component, start all fasteners and hand tighten. Following the method and sequence indicated, tighten evenly to the specified torque value. When removing nuts, bolts or screws from a component with several fasteners, loosen them all about 1/4 turn before removing them to prevent distortion of that component.

Replace all oil seals, sealing washers, gaskets, and O-rings with new ones during assembly. Be sure the mating surfaces for the gasket are clean and smooth to avoid leaks and maintain specified tolerances.

Some procedures require removal of retaining rings or clips. Removal can weaken and deform these parts, therefore, they should always be replaced with new parts. When installing new retaining rings and clips, use care not to expand or compress them beyond what is required for installation.

Victory lubricants and greases have been specially formulated to provide maximum performance and protection when applied properly. In some applications, warranty coverage may be void if improper lubricants are used.

Parts requiring grease should be cleaned thoroughly and fresh grease applied before reassembly. Deteriorating grease loses lubricity and may contain abrasive foreign matter. Always replace locking hardware such as lock nuts or lock washers, fasteners that have pre-applied locking agent, or any other fasteners as noted in this service manual with genuine Victory hardware from an authorized Victory dealer. Working with batteries can be hazardous. Review all battery warnings and cautions.

GENERAL

VEHICLE INFORMATION

MODEL NUMBER DESIGNATION

Example: V16DW36NA

GROUP	MODEL YEAR	MODEL	MODEL TYPE	ENGINE SIZE	ENGINE HP	SERIES	COLOR	PREMIUM DESIGNATION
1st	2/3rd	4th*	5th*	6th*	7th*	8th	9th**	10th
V	14 15 16 17	B = Cross Roads C = Cross Country LE D = Cross Country G = Vegas H = Hammer L = Gunner M = Judge R = Boardwalk S = Vision Tour T = Cross Country Tour U = Magnum X-1 W = High-Ball X = Jackpot Y = Magnum Z = Ness Magnum	A = 8 Ball B = Standard R = Sport (Forward) S = Sport (Mid) W = ABS	1 = 1507 cc (92 ci) 2 = 1634 cc (100 ci) 3 = 1731 cc (106 ci)	6 = Free-dom 106	E = Int'l N = North America	A = Black B = Gloss Black C = Pearl White D = Sunset Red E = Titanium Crystal H = Havasu Red J = Blue Fire L = Matte Titanium / Flames M = Black Crystal / Antifreeze Grn N = Black Crystal / Havasu Orange Pearl P = Matte Pearl White R = Black Pearl / Sunset Red T = Matte Titanium U = Turbo Silver V = Black Crystal / Ness Graphics W = Gloss Pearl White X = Suede Sagebrush Green Y = Matte Pearl White Z = Sunset Red	C = California A = Canada

* = digits that would transfer to 17 digit VIN and are used in digits 4-8 respectively.

** = 9th digit will be used on color/featured versions of models (not including the base).

First 3 digits and 9th digit are used in model number only. They are not used with the 17 digit VIN.

VEHICLE IDENTIFICATION NUMBER (VIN) DESIGNATION

Example: 5VPXB36N0C3000000

WORLD MFG. ID			VEHICLE DESCRIPTORS						VEHICLE IDENTIFIERS							
			CHASSIS	TYPE	ENGINE SIZE	ENGINE HP	SERIES	CHECK DIGIT	MODEL YEAR*	MFG. LOCATION	SERIAL NUM.					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
5	V	P	X	B	3	6	N	0	C	3	0	0	0	0	0	0

* Model Year: A = 2010; B = 2011; C = 2012; D = 2013-2014; F = 2015; G = 2016; H=2017

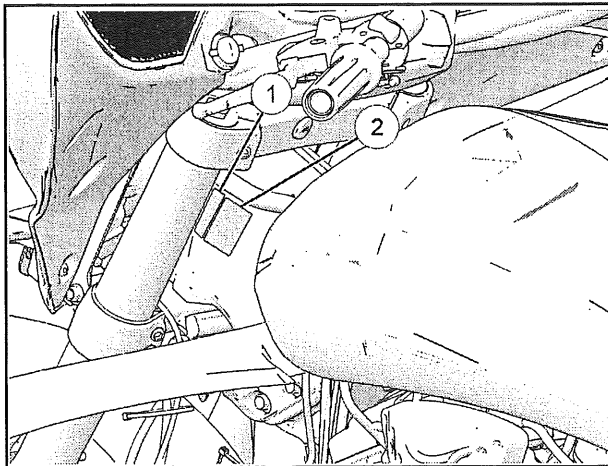
VIN NUMBER / MANUFACTURER LABEL

The Manufacturer Information Label ① contains the following:

- Vehicle Identification Number
- Gross Vehicle Weight Rating.
- Gross Axle Weight Rating.
- Tire and Wheel Information.
- Date of Manufacture.

VECI / NECI / TIRE INFORMATION LABELS

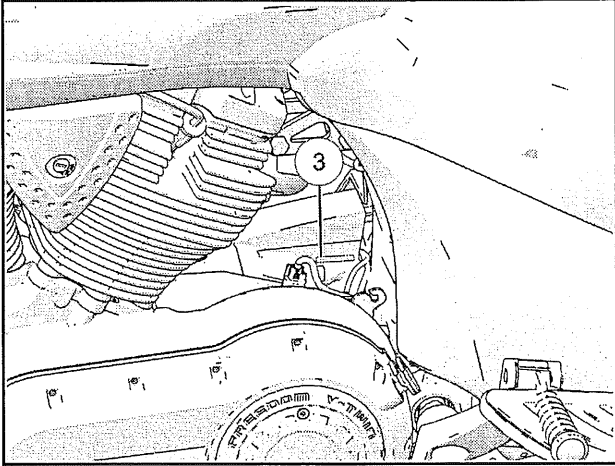
The Vehicle Emission Control Information (VECI) and Noise Emission Control Information (NECI) ② label is located on the left side of the head tube.



GENERAL

ENGINE NUMBER LOCATION

The engine number ③ is stamped into the right crankcase boss and identifies engine model and serial number.

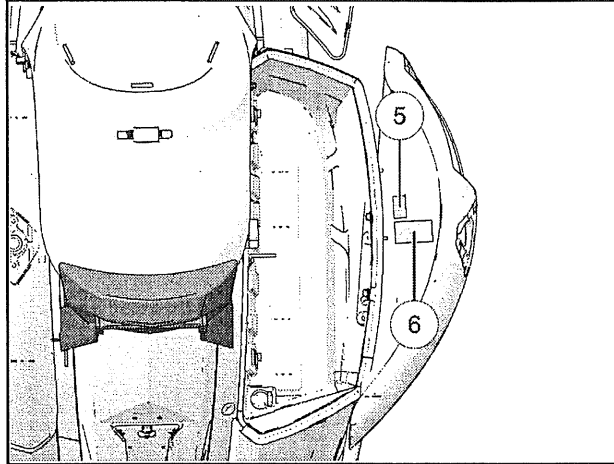


SADDLEBAG WARNING LABEL

Saddlebag Warning Label ⑤.

REAR SHOCK AIR PRESSURE LABEL

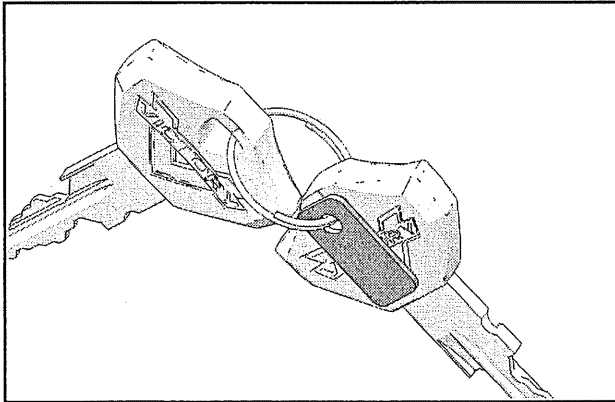
Rear Shock Air Pressure Label ⑥.



KEY IDENTIFICATION NUMBER

The key identification number is stamped on a tag attached to the key ring. If key and identification number are lost or misplaced, the lock set must be replaced.

Key blanks are available from Victory. Locksmiths familiar with the motorcycle industry will be able to cut a replacement key with an I.D. number and a key blank.



GENERAL SPECIFICATIONS

2012-2017 CROSS COUNTRY / CROSS COUNTRY TOUR / 8-BALL SPECIFICATIONS

		CROSS COUNTRY / 8-BALL	CROSS COUNTRY TOUR
CAPACITIES & DIMENSIONS	Oil Capacity	5.0 Qt. (4.75 ltr) (Approximately 4.5 qts. or 4.25 L at oil & filter change)	
	Fuel Capacity	5.8 US Gal (22.0 L) (1.0 U.S. gal / 3.8 L reserve)	
	Fuel Type / Octane Minimum	Premium Unleaded / 91 Octane	
	Dry Weight	768 lbs (348 kg) / 746 lbs (348 kg)	844 lbs (383 kg) / 760 lbs (345 kg)
	Wet Weight	800 lbs (363 kg) / 781 lbs (354 kg)	876 lbs (398 kg) / 795 lbs (361 kg)
	Gross Vehicle Weight Rating	1360 lbs (618 kg)	
	Gross Axle Weight Rating	Refer to Manufacturer Information label on frame of vehicle (left side of steering head)	
	Maximum Load	Subtract Wet Weight from GVWR or refer to Rider's Manual. Never exceed GVWR	
	Overall Length	104.3 in. (265.0 cm) / 104.3 in. (265.0 cm)	108.1 in. (274.7 cm) / 104.3 in. (265.0 cm)
	Overall Width	39.3 in. (99.9 cm)	
	Overall Height	52.5 in (133.3 cm)	60.0 in. (152.5 cm) / 53.2 in. (135.1 cm)
	Seat Height	26.25 in (66.7 cm)	
	Ground Clearance	5.8 in (14.8 cm)	
	Total Storage Volume	21.3 gallons (80.6 L) / 21.3 gallons (80.6 L)	38.7gallons (146.5 L) / 21.3 gallons (80.6 L)
	Passenger Capacity	1	
	Wheelbase	65.7 in (166.9 cm)	
	Rake / Trail	29 Degrees / 5.6 in. (14.2 cm)	
ENGINE	Engine Type	VICTORY Freedom® V-Twin	
	Engine Configuration	50° SOHC V-Twin 4 Stroke	
	Engine Displacement	1731cc / 106 cubic inch 6 speed (106 / 6 engine)	
	Engine Cooling System	Air / Oil	
	Compression Ratio	9.4:1	
	Compression Pressure	210 - 225 psi (1448 - 1551 kPa)	
	Valve Train	4 Valves per cylinder. Hydraulic Lifters & Cam Chain Adjusters (No Adjustment)	
	Bore x Stroke	101 x 108 mm	
	Idle Speed / Fast Idle Speed	NOT ADJUSTABLE - ECM Controlled by IAC (Spec Idle Speed is 950 +/- 100 RPM)	
	Fuel System / Throttle Body Bore Size	Closed Loop Sequential Electronic Fuel Injection / Dual Bore 45 mm	
	Exhaust System Type	Split Dual Exhaust With Crossover	
	Lubrication System	Wet Sump	
	Spark Plug Type (Gap)	NGK DCPR6E (.032 in. / .8 mm)	
	Dry Weight (Engine Approximate)	265 lbs (120 Kg)	
BRAKES	Brake Type (Front / Rear)	Disc / Disc	
	Front Brake	Dual 300x5mm Floating Disc / 4 Piston Calipers ABS	
	Rear Brake	Single 300x7mm Floating Disc / 2 Piston Caliper ABS	

GENERAL

		CROSS COUNTRY / 8-BALL	CROSS COUNTRY TOUR
DRIVESYSTEM	Transmission Type	Manual, 6 Speed Constant Meshwith True Overdrive	
	Primary Reduction Ratio	1.49:1	
	Final Drive / Ratio / Belt Width	Carbon Fiber Reinforced Belt / 2.12:1 / 28mm	
	Gear Shift Pattern	1 Down, 5 Up	
	Internal Gear Ratios 1st	3.13:1	
	2nd	2.02:1	
	3rd	1.50:1	
	4th	1.20:1	
	5th	1:1	
	6th	0.87:1	
SUSPENSION	Front Wheel (Size / Type)	Cast or Billet / 3.5 x 18 (inch) Spoke Type — 3.50 X 18"	
	Rear Wheel (Size / Type)	Cast or Billet 5.00 x 16 (inch) Spoke Type — 5.00 X 16"	
	Front Tire	Dunlop D418F Elite 3- 130/70 R18 63H Radial Dunlop 491 Elite II — 130/70-18 63H Bias-PLy (Tube Type)	
	Rear Tire	Dunlop D418 Elite 3 - 180/60R16 M/C 80H Radial Dunlop D418 Elite 3 — 180/60R16 M/C 80H Radial (Tube Type)	
	Minimum Tread Depth	.063 in. (1.6mm)	
	Front Type	Inverted Telescopic Cartridge Fork	
	Front Travel	5.1 in. (13 cm)	
	Front Tube Diameter	43 mm (1.7 in.)	
	Rear Shock Type	Single, Monotube Air Adjustable Shock	
	Rear Swingarm Type	Cast Aluminum with Constant Rate Linkage	
	Rear Travel (inches)	4.7 in (12 cm)	
LIGHTS	HID Headlamp	High H-11 / Low: D1SR	
	Turn Signal Lamp	Non-Serviceable LED	
	Brake / Tail / License Plate Lamp	Non-Serviceable LED	
	Alternator / Battery	625W (48A @ 13.0VDC) / 12V 18AH 310 CCA	
FUSES	Turn Signal / Horn	10 amp fuse	
	Chassis	20 amp fuse	
	Engine	15 amp fuse	
	Fuel Pump / Ignition Coil	15 amp fuse	
	Ignition	10 amp fuse	
	Lights	20 amp fuse	
	Circuit Breakers	See fuse box label Fuse Replacement (Main Fuse Box), page 2.38	
FUEL	Fuel Type	Premium Unleaded / 91 Octane Minimum	
	Fuel Pump Pressure	3.51 BAR (351 kPa) (51 psi)	
	Fuel Pump Volume	60 liters / hr (500 ml or 16.9 oz. / 30 seconds) (0.26 gal / min) (@ 12 V)	
	Fuel Level Sensor Resistance	Empty: 250 Ohms / Full: 50 Ohms	
	Fuel Pump Current Draw	Less than 5.0 Amps	
	Fuel Injector Resistance	11.4 - 12.6 Ohms	

Specifications may change with the addition of custom order options and / or accessories. Polaris Industries Inc. reserves the right without prior notice to discontinue at any time at its discretion any of the items herein or change specifications or designs without incurring any obligation to the customer.

GENERAL

2015–2017 VICTORY MAGNUM / MAGNUM X-1

		MAGNUM / NESS	MAGNUM-X1
CAPACITIES & DIMENSIONS	Oil Capacity	5.0 Qt. (4.75 ltr) (Approximately 4.5 qts. or 4.25 L at oil & filter change)	
	Fuel Capacity	5.8 US Gal (22.0 L) (1.2 U.S. gal / 4.51 L reserve)	
	Fuel Type / Octane Minimum	Premium Unleaded / 91 Octane	
	Dry Weight	778 lbs (353 kg)	787 lbs (357 kg)
	Wet Weight	810 lbs (367 kg)	822 lbs (373 kg)
	Gross Vehicle Weight Rating	1310 lbs. (595 kg)	
	Gross Axle Weight Rating	Front Axle: 460 lbs. (209 kg) Rear Axle: 850 lbs. (386 kg)	
	Maximum Load	491 lbs. (223 kg)	497 lbs (225 kg)
	Overall Length	104.6 in. (265.7 cm)	
	Overall Width	39.3 in. (100 cm)	
	Overall Height	53.8 in. (136.7 cm)	
	Seat Height	25.7 in (65.4 cm)	
	Ground Clearance	5.3 in (13.4 cm)	
	Total Storage Volume	21.3 gallons (80.6 liters)	
	Passenger Capacity	1	
	Wheelbase	65.7 in (167 cm)	
	Rake / Trail	29 Degrees / 5.6 in. (14.2 cm)	
ENGINE	Engine Type	VICTORY Freedom 106 / 6 V-Twin	
	Engine Configuration	50 SOHC V-Twin 4 Stroke	
	Engine Displacement	1731cc / 106 cubic inch 6 speed (106 / 6 engine)	
	Engine Cooling System	Air / Oil	
	Compression Ratio	9.4:1	
	Compression Pressure	210 - 225 psi (1448 - 1551 kPa)	
	Valve Train	4 Valves per cylinder. Hydraulic Lifters & Cam Chain Adjusters (No Adjustment)	
	Bore x Stroke	101 x 108 mm	
	Idle Speed / Fast Idle Speed	NOT ADJUSTABLE - ECM Controlled by IAC (Spec Idle Speed is 950 +/- 100 RPM)	
	Fuel System / Throttle Body Bore Size	Closed Loop Sequential Electronic Fuel Injection / Dual Bore 45 mm	
	Exhaust System Type	Split Dual Exhaust With Crossover	
	Lubrication System	Wet Sump	
	Spark Plug Type (Gap)	NGK DCPR6E (.032 in. / .8 mm)	
	Dry Weight (Engine Approximate)	265 lbs (120 Kg)	
BRAKES	Brake Type	Disc / Disc	
	Front Brake	Dual 300x5mm Floating Disc / 4 Piston Calipers ABS	
	Rear Brake	Single 300x7mm Floating Disc / 2 Piston Caliper ABS	

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